Wildlife Research Projects

ACTIVE IN BRITISH COLUMBIA

APRIL 1991 TO MARCH 1992

BC Environment

May 1992

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WILDLIFE RESEARCH PROJECTS ACTIVE IN BRITISH COLUMBIA APRIL 1991 to MARCH 1992

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Introductory Remarks

This information circular lists all research projects known to be active in British Columbia in the period from April 1991 to March 1992. The purpose of this circular is: 1) to list active wildlife research projects with respect to species studied, location, status, purpose, and principal contacts, 2) to promote communications and cooperation among wildlife researchers working in the province, 3) to promote greater awareness of the number of individuals and agencies conducting research, and 4) to foster development of a B.C. Wildlife Research network.

Although this is the third attempt to catalogue research projects, it still will contain errors and omissions. Please be assured that none of these are deliberate! Each year the list will be more complete as the list of researchers expands (and if you let us know of any errors, omissions, or upcoming projects).

There still is the question of what projects should be included in this list. For the present, we have erred on the side of inclusion rather than exclusion. For the most part, most listed projects are sponsored by government or are graduate theses which are characterized by those activities usually associated with research endeavours.

This report lists a total of 173 wildlife-related research projects occurring in British Columbia during the 1991-1992 fiscal year. This is a decline of 5 projects from the previous year. This issue lists 113 projects that have been continued from the previous year and 60 new projects. There were 39 projects completed and 26 projects not listed because of a lack of response from the researchers.

User's Guide

The projects are listed in two groups. The first group, numbers 1 to 136, consists of studies listed in alphabetical order by the common name of a species, group of species, or generic name such as birds or seabirds. Studies oriented toward systems or groups of species or those dealing with habitats are listed in the second group, numbered 137 to 173, under the broad heading of topic or habitat oriented.

Locations are usually the nearest settlement, major geographical feature, or, in a few cases, the range of a species. Status should be self-explanatory. Agency refers to those organizations principally involved with the project. Most projects receive support from many agencies and likely some names are omitted. Again, these omissions are not intentional; the choice of names is left to the researcher who submits this information. At the end of this section is a list of the organization abbreviations used in the list of projects. We tried to restrict the project descriptions to twelve words or less. Contacts are self-explanatory.

Future Directions

We invite feedback on the value of continuing with this type of document as well as on errors and omissions. If there are any comments on changes to the format, please let us know. The response to this third edition has been very good. Our list of researchers is continuing to grow with 181 names now on the mailing list and we wish to thank all those who sent in contributions. Hopefully, the 1992/1993 listings will be initiated in October with a publication date early in 1993.

Abbreviations of Agencies

BCCF	British Columbia Conservation Foundation
BCE	Ministry of Environment, Lands and Parks
BCH	British Columbia Hydro and Power Authority
BCP	Ministry of Environment, Lands and Parks
CFP	Canadian Forest Products
CPS	Canadian Parks Service
CWS	Canadian Wildlife Service
DCF	Donner Canadian Foundation
DFO	(Canada) Department of Fisheries and Oceans
DPW	(Canada) Department of Public Works
DU	Ducks Unlimited
FC	Forestry Canada
FCC	Fletcher Challenge Canada
FI	Forest Industry
IDFG	Idaho Department of Fish and Wildlife

Abbreviations of Agencies (cont.)

IUCN	International Union for the Consaervation of Nature and Natural Resources (Switzerland)
IND	Industry
LBCS	Laskeek Bay Conservation Society
MB	MacMillan Bloedel Limited
MCMF	Mountain Caribou in Managed Forests
MDFWP	Montana Department of Fish, Wildlife, and Parks
MMRG	Marine Mammal Research Group
MOF	Ministry of Forests
MOTH	Ministry of Transportation and Highways
NCC	Nature Conservancy of Canada
NSERC	National Science and Engineering Research Council
NTBC	Nature Trust of British Columbia
NVTC	Nicola Valley Tribal Council
RBCM	Royal British Columbia Museum
SABR	Spatsizi Association for Biological Research
SFU	Simon Fraser University
TNC	The Nature Conservancy of United States
UBC	University of British Columbia
UC	University of Calgary
UCC	University College of the Cariboo
USFWS	United States Fish and Wildlife Service
UVIC	University of Victoria
VPA	Vancouver Public Aquarium
WFP	Western Forest Products
WGD	Washington Game Department
WHC	Wildlife Habitat Canada

WILDLIFE RESEARCH AND DEVELOPMENT PROJECTS ACTIVE IN BRITISH COLUMBIA IN 1991-1992

GROUP ONE - SPECIES ORIENTED

No.	Species Studied	Location	Status	Agency	Purpose	Contact
1	Alcid Seabirds	Southern Vancouver Island	7 of ongoing	UVIC	Underwater feeding ecology and diving behavior; develop depth gauges	Alan Burger 721-7094
2	American Coot	Creston	2 of 2 yrs	SFU	Fighting behavior	Pete Huud 291-4502, Ron Ydenberg 291-4475
3	Amphibians	Province-wide	Ongoing	IUCN	Coordinated international effort to monitor trends in amphibian populations	Stan Orchard 386-7510
4	Amphibians, Mammals, Birds	Squamish	2 of 2 yrs	SFU	Evaluate vertebrate communities in small patches of mature forests	Jim Schieck 721-5524
5	Amphibians, Reptiles	Province-wide	1 of 5 yrs	MOF	Synthesis of distribution, systematics, and natural history of British Columbia herps	Stan Orchard 386-7510
6	Amphibians, Woodpeckers, Small Mammals	Kamloops Forest Region, East Barrier Lake	1 of 2 yrs	MOF	Evaluate biodiversity in relation to silvicultural practices in ESSF and ICH	Walt Klenner 828-4714
7	Ancient Murrelet	Limestone Island, Queen Charlotte islands	3 of ongoing	LBCS, CWS	Population dynamics, predation	Tony Gaston (819) 997-6121, Keith Moore 559-8889
8	Ancient Murrelets, Cassin's Auklets, other Birds	East Limestone Island, Queen Charlotte Islands	3 of ? yrs	LBCS	Nesting habits of seabirds	Keith Moore 559-8889, Charlotte Husband 559-4582, Andrea Lawrence 539-5541
9	Bald Eagle	Coastal British Columbia	3 of ongoing	Private Vet., BCE	Investigate occurrence of disease, injury, parasites, and contaminants of eagles	Ken Langelier 763-1288, Rick Davies 758-3951
10	Bald Eagle	Vancouver Island	3 of 5 yrs	CWS	Exposure and effects of persistent chlorinated hydrocarbons and mercury	John Elliott 946-8546
11	Bald Eagle	Vancouver Island (all of Region 1)	12 of ongoing	BCE	Population and nest site inventory and habitat relationships	Rick Davies 758-3951
12	Bald and Golden Eagles	Nimpkish Valley	2 of ongoing	CFP	Map and manage nest sites, collect data on nesting success	Alan McLeod663-1723, John Deal 281-2481
13	Bats	Nelson Area	1 of 5 yrs	BCE	Bat diversity in the West Arm Demonstration Forest	John Senyk 363-0600, Mark Brigham (306) 585-4145, Laura Darling 387-9756

No.	Species Studied	Location	Status	Agency	Purpose	Contact
14	Birds	Adam and Eve Watersheds, Vancouver Island	1 of 1 yr	MOF, CWS	Compare the response of bird communities to successful and unsuccessful glyphosate treatments and relate forage and invertebrate availability to habitat use by various bird species in the CWH biogeoclimatic zone	Brian Nyberg 387-3144, Rhonda Millikin 946-8546
15	Birds	British Columbia	17 of 21 yrs	CWS, RBCM	Status and distribution of the birds of British Columbia	Wayne Campbell 387-2483, Neil Dawe 752-9611
16	Birds	Coastal B.C. Beaches	4 of 5 yrs	BCE, UVIC	Monitor incidence of dead seabirds and rates of oiling; produce baseline in oil spill impact studies	Alan Burger 479-9833
17	Birds	Kamloops Area	3 of 3 yrs	UBC, MOF, MOE	Effects of thinning on forest bird communities	Barry Booth 822-5724
18	Birds	Okanagan	?	BCE	Monitoring wild bird use of 3 m tall stubs as artificial snag habitat	Brian Harris 493-8261
19	Black Bear	Nimpkish Valley	1 of 2 yrs	CFP	Assess denning requirements and impacts of clearcutting on den site availability; population estimates and habitat requirements	John Deal 281-2481
20	Black-tailed Deer	Caycuse River	4 of 4 yrs	MOF, FC	Identify constraints on moving between and within habitats	Scott McNay 387-6711
21	Black-tailed Deer	Caycuse River, TFL #46	4 of 4 yrs	FCC	Assess use of snow line mapping to indicate winter habitat needs	Bob Willington 246-9332
22	Black-tailed Deer	Caycuse River, TFL #46	4 of 4 yrs	FCC	Test GIS as tool to aid in the assessment to habitats for deer	Line Giguere 246-9332
23	Black-tailed Deer	Nimpkish Valley	4 of 4 yrs	MOF, CFP	Effect of winter habitat loss	Scott McNay 387-3144, Alan McLeod 281-2481, John Deal 281-2481
24	Black-tailed Deer	Nimpkish Valley	2 of 3 yrs	CFP, MOF	Test the effect of ANI-PELR as a browsing deterrent	Ian McLeod 281-2481, Jeff Fournier 660-9866
25	Black-tailed Deer	Vancouver Island	4 of 4 yrs	BCE, MOF	Assess population indices as response to habitat changes	Don Doyle 758-3951
26	Black-tailed Deer, Roosevelt Elk	Nanaimo River Area	4 of 4 yrs	BCE, MOE	Development and validation of habitat quality models to be used in integrated wildlife-forestry planning	Marvin Eng 387-2710
27	Black-tailed Deer, Roosevelt Elk	Nimpkish Valley	2 of 2 yrs	BCE	Habitat assessment and planning to achieve integrated wildlife-forestry planning	Marvin Eng 387-2710

No.	Species Studied	Location	Status	Agency	Purpose	Contact
28	Bobcat	Rocky Mountain Trench	4 of 4 yrs	BCE, UC	Effects of harvest on population dynamics	Anna Wolterson 426-1450, Trevour Kinley 429-3479, Ray Demarchi 426-1456
29	Brant	Georgia Strait	2 of ? yrs	CWS	Population and habitat use	Neil Dawe 752-9611, Rick McKelvey 946-8546
30	Brant	Shingle Bay Queen Charlotte Islands	1 of 1 yr	CWS	Determine if staging and feeding would be affected by the construction of a small craft harbour at Sandspit	Kees Vermeer 363-6537
31	Brant	Queen Charlotte Islands	1 of 2 yrs	DFO, DPW, CWS	Population dynamics and habitat use	Rick McKelvey 946-8546
32	Burrowing Owl	South Okanagan Valley	9 of ongoing	BCE	Demography of reintroduced burrowing owls	Andrew Bryant 754-1356, Mike Sarell 642-8256
33	California Bighorn Sheep	Yalakom River/Fraser River, north and west of Lillooet	4 of 4 yrs	BCE	Impacts of forest/mining roads/development on migration paths and critical habitat	Phil Holman 374-9717
34	California Quail	Okanagan Valley	3 of 3 yrs	CWS	Pesticide exposure and impact on orchard birds	John Elliott 946-8546
35	Canada Geese	Vancouver Island, Fraser Valley	Ongoing	CWS	Population dynamics, population control, and banding	Rick McKelvey 946-8546
36	Caribou	East Central to Southern B.C.	4 of 5 yrs	BCE, WHC, MOF, (MCMF)	Movements, habitat relationships, and special management techniques for winter ranges	Susan Stevenson 564-5695, Ken Child or Glen Watts 564-6425
37	Caribou	Graham River	5 of ongoing	BCE	Effect of forest management on habitat use and population dynamics	Rob Thomson 787-3288
38	Caribou	Itchas and Ilgatchuz Ranges	2 of ? yrs	MOF	Integrating habitat needs and forest management	Harold Armleder 398-4407
39	Caribou	Itchas and Ilgatchuz Ranges, Tweedsmuir Park	2 of 2 yrs	UBC, MOF, BCE	Successful trends of lichens following forest disturbance	Alfred Brulisauer or Michael Pitt 822-3452
40	Caribou	North Tweedsmuir Park	4 of ongoing	BCP, BCE	Population dynamics	Jim DeHart 847-7320, Rick Marshall 847-7299, Debbie Cickowski 565-6270
41	Caribou	Quesnel Highlands	3 of ? yrs	MOF	Integrating habitat needs and forest management	Harold Armleder 398-4407
42	Caribou	Revelstoke	2 of 15 yrs	BCE, MOF	Determine the effects of tree girdling on lichen production in mid-aged forests	Guy Woods 354-6333, Larry Ingham 354-6162, Susan Stevenson 564-5695

No.	Species Studied	Location	Status	Agency	Purpose	Contact
43	Caribou	Robson Valley, Prince George Area	1 of 5 yrs	BCE	Assess the effects of partial cutting on caribou habitat attributes	Ken C ild 565-6425, Susan Stevenson 564-5695
44	Caribou	Selkirk Mountains	? of ? yrs	BCE, IDFG, USFWS	Habitat relationships and parameters and transplant success	Guy Woods 354-6333, Brad Compton or Greg Sevheen (208) 267-7783
45	Caribou	West Chilcotin, Northwest of Alexis Creek	4 of 5 yrs	BCE	Enhancement of terrestrial lichen for forage	Kat Enns 479-6216, Andy Stewart 387-9780, Herb Langin 398-4563
46	Common Barn Owl	Lower Mainland	3 of 3 yrs	UBC	Nesting and roosting habitats; methodology for stabilizing local populations, population status	Kim Cheng 822-2480, Lorraine Andrusiak 585-4615
47	Cougar	Englishman River, Northwest Bay	2 of 3? yrs	BCE	Population dynamics, movement behavior, general ecology	Knut Atkinson or Doug Janz 578-3951
48	Dunlin, Black-bellied Plover, Western Sandpiper, Sanderling	Fraser Delta Foresh · and Boundary Bay	1 of 1 yr	CWS	Diet as related to prey availability and habitat	Kees Vermeer 363-6537
49	Elk	Rocky Mountain Trench	3 of 3 yrs	BCE	Population, distribution, and habitat use in conjunction with agriculture lands	Anna Wolterson 426-1450, Ray Demarchi 426-1456
50	Fish-eating Birds, Mergansers, Grebes	Port Alberni	1 of 1 yr	CWS	Determine levels of dioxin in livers of fish-eating birds in Somass River estuary downstream of Port Alberni pulp mill	Kees Vermeer 363-6537
51	Fisher	Williams Lake	3 of 3 yrs	BCE	Population dynamics and habitat selection.	Randy Wright 398-4565
52	Furbearers	Nelson Area	1 of 5 yrs	BCE	Impacts of partial cutting on furbearer distribution and habitat use	Al Soobotin 354-6344, Nancy Newhouse 429-3479
53	Furbearers	Peace River Site C Dam Area	2 of 3 yrs	BCH	Relative abundance and occurrence by bio-physical habitat units	Keith Simpson 535-0046 Rod Backmeyer 787-0588, Alan McLeod 663-1723
54	Grassland Birds	Riske Creek, Becher's Prairie	3 of 4 yrs	UBC, CWS, BCE, MOF, BCCF	Managing grasslands for avifauna diversity, with emphasis on long-billed curlews	Tracy Hooper 327-4113, Michael Pitt 822-3452, Jean-Pierre Savard 946-8546
55	Great Blue Heron, Cormorants	Strait of Georgia	Ongoing	CWS	Monitoring trends and effects of persistent pollutants	Phil Whitehead or John Elliott 946-8546

No.	Species Studied	Location	Status	Agency	Purpose	Contact
56	Great Blue Heron, Cormorants, Pigeons	Strait of Georgia, Fraser River Estuary	Ongoing	UBC, CWS	Effects of dioxin contamination on wildlife species; determine "safe" levels of environmental TCDD and related chemicals	Kin Cheng 822-2480, L. Hart 822-4484, G.Bellward 822-4103, D. Henshel 822-4453, Phil Whitehead or John Elliott 946-8546
57	Grizzly Bear	Khutzeymateen River Valley	4 of 4 yrs	BCE, MOF	Impact of potential forest development on bears and their habitat	Tony Hamilton or Grant MacHutchon 387-9761
58	Grizzly Bear	Kimsquit River Valley and other Coastal Watersheds	9 of 9 yrs	BCE, MOF, WHC	Impacts of forest development on habitat	Tony Hamilton 387-9761
59	Grizzly Bear	Nelson, Kootenay Lake Forest District	4 of ? yrs	UBC, BCE, IDFG, USFWS, WGD	Population status and movements	Rob Wielgus 822-5724, Wayne Wakinen (208) 267-8504, Guy Woods 354-6333
60	Grizzly Bear	South Tweedsmuir Park	3 of ? yrs	BCP, BCE	Movements, seasonal habitat use, and population dynamics	Glen Davidson 398-4414, Sean Sharpe 565-6270 Tom Smith 398-4561
61	Harbour Seals	Victoria Area	2 of ?	SFU, MMRG	Examining sensory systems used in the detection of predators	Robin Baird 380-1925, Larry Dill 291-3664
62	Herps	Creston East	Ongoing	RBCM	Species survey, biogeography, and population status	Stan Orchard 386-7510
63	Herps	Southern Okanagan Valley	3 of 5 yrs	RBCM	Species survey, biogeography, and population status	Stan Orchard 386-7510
64	Introduced Amphibians and Reptiles	Southern Vancouver Island, Gulf Islands, and Lower Mainland	2 of 4 years	RBCM	Species survey and population status	Stan Orchard 386-7510
65	Invertebrates	Carmanah Valley	2 of 5 yrs	MOF, UVIC	Comparison of invertebrate populations in old-growth Sitka spruce canopy, the transition zone, and clearcuts	Neville Winchester 721-7099
66	Killer Whales	Central Coast	Ongoing	VPA, NSERC	Use of sonar in feeding	Lance Barrett-Lennard 822-3363, John Ford 631-2507
67	Killer Whales	Robson Bight	Ongoing	BCP	Interaction of whales with humans and boats	Rik Simmons 755-2483
68	Killer Whales	Southern Vancouver Island	6 of ongoing	SFU, MMRG	Foraging ecology and behavior of transients, predation on marine birds and mammals	Robin Baird 380-1925, Larry Dill 291-3664
69	Mammals, Birds	Quesnel Highlands	1 of ? yrs	MOF	Effects of low volume partial cutting in old-growth ESSFwc forests on diversity and abundance of various species	Herald Armleder 398-4407, Michaela Waterhouse 398-4405
70	Marbled Murrelet	Nimpkish Valley	1 of ongoing	CFP, CWS	Inventory, locate nest sites, and quantify nest site characteristics	Alan McLeod 663-1723, John Deal 281-2481

No.	Species Studied	Location	Status	Agency	Purpose	Contact
71	Marbled Murrelet	Southern Vancouver Island	3 of 3-5 yrs	UVIC, CPS	Forest nesting habitat and links between terrestrial and marine habitats	Alan Burger 721-7094
72	Marten	Emerson Creek near Houston	5 of 5 yrs	BCE, SFU, MOF	Habitat relationships in subboreal forests, develop habitat management tools	Eric Lofroth 847-7692, Alton Harestad 291-4809, Don Eastman 387-9796
73	Marten	Okanagan	?	BCE	Assessing wildlife use of logging slash with emphasis on marten and their prey	Brian Harris 493-8261
74	Meadow Vole	Creston	Final year	SFU	Effects of predation risk on reproduction	Mike Dehn or Larry Dill 291-3664
75	Mink and River Otter	Fraser and Columbia River Drainage Basins	2 of 2 yrs	CWS	Exposure to persistent pulp mill pullutants	John Elliott or Phil Whitehead 946-8546
76	Moose	Coquihalla-Okanagan Connector	5 of 5 yrs	BCE, MOTH	Impact of highways on movement patterns and population dynamics	Keith Simpson 535-0046, Les Gyug 769-5907, Angela Buckingham 387-7766
77	Moose	Kamloops, Pentiction Forest District	3 of 3 yrs	UBC, FI	Analysis and quantification of thermal cover during summer	Mike Demarchi 822-5724
78	Moose	Thompson-Nicola Subregion	7 of ongoing	BCE	Pregnancy rates, conception dates, fecundity	Doug Jury 374-9717
79	Moose	Thompson-Nicola Subregion	1 of 4 yrs	BCE	Moose sightability	Doug Jury 374-9717 Don Doyle 758-3951
80	Moose, Wolves	Spatsizi Provincial Park	3 of 5-10 yrs	SABR, BCE, BCH, DCF, BCP	Interactions among moose and wolves	David Hatler 846-9172, Irving Fox N423794 (Smithers channel)
81	Moose	Thompson-Nicola, Cariboo, and Omineca Areas	Ongoing	BCE, UBC	Evaluation of selective moose harvesting strategies	Rob Thomson 787-3288, Fred Bunnell 822-5724
82	Mountain Goat	Garibaldi Park	Ongoing	BCP	Population status	Judy Millar 929-1292
83	Mule Deer	Coquihalla-Okanagan Connector	5 of 5 yrs	BCE, MOTH	Impact of highways on movement patterns and population dynamics	Keith Simpson 535-0046, Les Gyug 769-5907, Angela Buckingham 387-7766
84	Mule Deer	Thompson-Nicola Subregion	2 of 4 yrs	BCE	Seasonal ranges, migration patterns, sightability correction factors, population estimates and distribution	Kurt Kier 374-9717

No.	Species Studied	Location	Status	Agency	Purpose	Contact
85	Mule Deer, Moose, Elk, White-tailed Deer	Peace River Site C Dam Area	2 of 3 yrs	BCH	Impact of dam on population dynamics and habitat loss	Keith Simpson 535-0046, Rod Backmeyer 787-0588, Alan McLeod 663-1723
86	Mule Deer, Rocky Mountain Bighorn Sheep	Arrow Lakes Basin, West Kootenays	5 of ongoing	BCE	Movements, seasonal habitat ranges, population dynamics, and predation	Don Miller 354-6163
87	Northwest Chipmunk, Deer Mouse, Red-backed Vole, other Small Mammals	Prince George	4 of 5 yrs	UBC	Effects of herbicide use in Sub Boreal Spruce Zone on small mammal populations	Tom Sullivan 822-3543
88	Northwest Chipmunk, Deer Mouse, Red-backed Vole, other Small Mammals	Williams Lake	1 of 3 yrs	UBC	Influence of silviculture systems on seed predation and small mammal diversity	Charlotte Von Treba or Tom Sullivan 822-3543
89	Northwestern Crow	Mitlenatch Island	Ongoing	SFU	Ecology	Nico Verbeek 291-4458
90	Osprey	Fraser and Columbia River Drainage Basins	2 of 3 yrs	CWS	Determine exposure and effects of persistant pulp mill pullutants	John Elliott or Phil Whitehead 946-8546
91	Osprey	Nelson	2 of 2 yrs	SFU	Male foraging energetics	David Green 291-3998, Ron Ydenberg 291-4475
92	Pigeon Guillemots	Skidegate Inlet Queen Charlotte Islands	1 of 1 yr	CWS	Determine predation by raccoons and develop a new censusing method	Kees Vermeer 363-6537
93	Raccoon	Louise Island, Queen Charlotte Islands	3 of 4 yrs	BCE, UVIC, CWS, CPS	Impact of raccoons on colonies of burrow-nesting seabirds	Lisa Hartman or Don Eastman 387-9796, Al Edie 847-7298
94	Raptors - Bald Eagle, Red-tailed Hawk, Great Horned Owl, and Falcons	Lower Fraser Valley	1 of 2 yrs	CWS	Incidence of secondary pesticide poisoning to wintering raptors	John Elliott or Pamela Sinclair 946-8546
95	Red Squirrel, Northwestern Chipmunk, Deer Mouse, Red-backed Vole, other Small Mammals	Penticton Creek, Lac Le Jeune, Prince George	3 of 3 yrs	UBC	Effects of stand density on small mammal populations and squirrel damage	Tom Sullivan 822-3543
96	Red Squirrel, Northwestern Chipmunk, Deer Mouse, Red-backed Vole, other Small Mammals	Vernon	3 of 5 yrs	UBC	Effects of large scale food supplementation on small mammal populations and squirrel damage	Tom Sullivan 822-3543
97	Red-naped Sapsucker, Hairy Woodpecker, Northern Flicker	Hat Creek	3 of 5 yrs	RCBM, UVIC	Estimation of survivorship, reproductive rate, and site/mate fidelity; description of social system and space use/defence	Ted Miller 387-2107

No.	Species Studied	Location	Status	Agency	Purpose	Contact
98	Rocky Mountain Bighorn Sheep	Galton Ranges, Grassmere	2 of 2 yrs	MDFWP, BCE	Population dynamics and habitat use	Jim Cross (406) 752-5501, Anna Wolterson 426-1450, Ray Demarchi 426-1456
99	Roosevelt Elk	North Island: Nahwitti, Benson	2 of 4 yrs	BCE, MB, WFP, UBC	Movements and habitat use	Doug Janz or Kim Brunt 578-3951, Dave Shackleton 822-6873
100	Roosevelt Elk	Strathcona Park, Vancouver Island	3 of 5 yrs	BCP	Habitat relationships, seasonal habitat ranges and movements	Rik Simmons 755-2483, Dave Sovka 337-5121
101	Roosevelt Elk, Columbian Black-tailed Deer	Sayward Forest, Campbell River	5 of 5 yrs	BCE	Effects of commercial thinning forestry activities on deer/elk habitats	Kim Brunt 758-3951
102	Sea Otter	Checleset Bay Ecological Reserve	Ongoing	BCP	Distribution, habitat use, and problem analysis	Rik Simmons 755-2483
103	Seabirds	Coastal British Columbia	3 of ? yrs	BCE, UVIC	Oil spill toll on seabirds and current drift patterns	Debbi Hlady 387-9658
104	Seabirds	Coastal British Columbia	Ongoing	CWS	Monitoring chlorinated contaminants and heavy metals in the marine environment	Phil Whitehead or John Elliott 946-8546
105	Seabirds and Shoreline Birds	West Coast Vancouver Island	2 of 2 yrs	CWS	Prepare symposium proceedings on sea and shoreline bird status	Kees Vermeer 356-6537, Rob Butler 946-8546, Ken Morgan
106	Sharp-tailed Grouse	Thompson-Nicola Subregion	2 of 3 yrs	BCE, NVTC	Seasonal habitat requirements, breeding/nesting chronology, critical wintering/nesting areas	Doug Jury 374-9717, Sandra Neil 378-4235
107	Shorebirds	Spit near Sandspit Queen Charlotte Islands	1 of 2 yrs	CWS	Determine species composition	Kees Vermeer 363-6537
108	Small Mammals	Nimpkish Valley	1 of 2 yrs	CFP	Population inventory; determine effects of pre-commercial and commercial thinning on populations	John Deal 281-2481
109	Small Mammals, Birds, Furbearers	Vernon	1 of 5 yrs	UBC	Influence of vegetation management on diversity of plants, small mammals, and birds in the ICH biogeoclimatic zone	Tom Sullivan 822-3543, Markus Merkens 822-3543, Bruce Runciman, Fred Bunnell 822-5724, Alton Harestad 291-4809
110	Small Mammals, Birds, Reptiles, Amphibians	North Central Vancouver Island	2 of 2 yrs	SFU, MOF, BCE	Effects of habitat island size on vertebrate communities and consequences of forest fragmentation in CWH Zone	Ken Lertzman 291-3069
111	Snow Geese	Fraser Delta	6 of ongoing	CWS	Distribution, abundance, population dynamics, and harvest	Rick McKelvey 946-8546

No.	Species Studied	Location	Status	Agency	Purpose	Contact
112	Snowshoe Hare	Prince George	4 of 4 yrs	UBC	Effects of habitat alteration on hare populations	Tom Sullivan 822-3543
113	Soil Fauna	Vancouver Island	1 of 5 yrs	FC	Impacts of environmental changes on biological diversity of forest ecosystems	Valin Marshall 363-0663
114	Songbirds	Western Vancouver Island	2 of ? yrs	MB, CWS	Species diversity in old growth and regenerating forests	Andrew Bryant 754-1356, Ron MacLaughlin 755-3500, Jean-Pierre Savard 946-8546
115	Stone Sheep	Mount Frank Roy, West of Chetwynd	3 of 4 yrs	BCE	Population dynamics and habitat use of transplanted sheep	Marc Wood 565-6856, Brian Churchill 787-3286
116	Terrestrial Salamanders	Port Alberni area	2 of 2	UBC, MOF, MB	Effects of logging on populations, habitat	L. Dupuis 822-3363
117	Townsends Chipmunk, Deer Mouse, Oregon Vole, Red-backed Vole, other Small Mammals	Maple Ridge	2 of 2 yrs	UBC	Study of *Giardia* sp. in wildlife species associated with sludge fertilization of forest plantations	Chris Cheng or Tom Sullivan 822-3543
118	Tree Swallows	Creston	2 of 2 yrs	SFU	Nest parasites	Wally Rendell or Nico Verbeek 291-4458
119	Trumpeter Swans	Coastal	Ongoing	CWS	Population status	Rick McKelvey 946-8546
120	Vancouver Island Marmot	Central Vancouver Island	5 of ongoing	BCE, BCP	Collect basic life-history data; comparative demography of marmots inhabiting "natural" sub-alpine and logging-slash habitats	Andrew Bryant 754-1356, Bill Munro 387-9764, Doug Janz 758-3951, Denis Moffatt 387-4355
121	Violet-green and Tree Swallows	Creston	3 of 3 yrs	SFU	Trade-offs between defending nests and guarding mates	Barb Beasley or Nico Verbeek 291-4458
122	Voles	Houston	4 of 4 yrs	UBC	Monitor population dynamics of voles and lemmings and plantation damage control	Tom Sullivan 822-3543
123	Voles	Houston	1 of 2 yrs	UBC	Development of predator-based repellent formulations for control of vole damage	Linda Boonstra or Tom Sullivan 822-3543
124	Waterfowl	Central Interior and Kootenays	Ongoing	CWS	Distribution, abundance	Rick McKelvey 946-8546
125	Waterfowl	Central Interior, Kootenays	Ongoing	CWS	Banding	Rick McKelvey 946-8546
126	Waterfowl	Kawdy Plateau north-west of Dease Lake	2 of 2 yrs	CWS, DU	Populations (species composition, density, habitat use) at high elevations of northern B.C.	Jim Hawkings (403) 668-2285

No.	Species Studied	Location	Status	Agency	Purpose	Contact
127	Western Kingbird	Creston	4 of 4 yrs	SFU	Nest defence	Joanne Siderius or Nico Verbeek 291-4458
128	Western Meadowlard	Lac Du Bois Management Area, Kamloops	2 of ? yrs	UCC	Role of song repertoires in territory defence and mate attraction	Tom Dickinson 828-5447
129	Whales, porpoises, and dolphins	Coastal Waters	6 of ongoing	MMRG, SFU	Examining causes of mortality (fisheries-related and natural) in stranded animals	Robin Baird, Tamara Guenther, and Pam Stacey 380-1925 (1-800-665-5939)
130	Whales, porpoises, dolphins, elephant seals	Coastal Waters	6 of ongoing	MMRG, SFU	Public sighting program, mapping seasonal distribution of all species	Robin Baird, Tamara and Guenther, and Pam Stacey 380-1925 (1-800-665-5939)
131	White-tailed Deer	Pend d'Oreille Valley	14 of ongoing	BCE	Movements, seasonal habitat ranges, and population dynamics	John Gwilliam 367-9612, Guy Woods 354-6333
132	Wolf	Adam and Eve River, Vancouver Island	2 of 3 yrs	BCE	Population dynamics, management	Knut Atkinson 758-3951
133	Wolf	Flathead, Wigwam, and Lodgepole Drainages, East Kootenays	11 of ongoing	MDFWP, BCE	Predation, habitat use, population dynamics; expansion into Montana	Dan Pletcher (406) 243-6364, Anna Wolterson 426-1450, Ray Demarchi 426-1456
134	Woodland Caribou	East of Prince George	2 of ? yrs	MOF, BCE, MCMF	Micro-climate use of caribou and partial cuts	Susan Stevenson 564-5695, Glen Watts 565-6426 Bruce McLellan 963-9651
135	Woodland Caribou	West of Williston Lake	2 of 4 yrs BCH	MOF, BCE,	Habitat use, movements, mortality rates	Rick Dawson 565-6856, Bruce McLellan 963-9651
136	Yellow-headed Blackbird	Creston	3 of 4 yrs	SFU	Begging behavior of nestlings	Karen Price 291-4502, Ron Ydenberg 291-4475

GROUP TWO-TOPIC OR HABITAT ORIENTED

No.	Topic Studied	Location	Status	Agency	Purpose	Contact
137	Biodiversity	Province-wide	2 of 3 yrs	UBC, MOF	Assessing impacts of the distribution of forestry practices through time and space on biological diversity	Fred Bunnell 822-5724, John Nelson 822-2685
138	Biodiversity	Province-wide	?	MOF	Development of methods to provide regional perspective on the status of and threats to biodiversity	Rick Page 387-6710
139	Biodiversity	Vancouver Island	2 of 2 yrs	BCE, MOF	Development of methods to provide a regional perspective on the status of and threats to biodiversity	Marvin Eng 378-2710
140	Biodiversity	West of Williston Lake	1 of 6 yrs	BCE, BCH, FCC	Test of wildlife response to 3 harvesting treatments which retain snags and green tree islands	Rick Dawson 565-6856, Richard Krigier 997-2587
141	Biodiversity Guidelines	Prince Rupert Forest Region	2 of 3 yrs	MOF, BCE	Identify threatened components of terrestrial biodiversity in PRFR; develop guidelines to maintain biodiversity and format these for operational forest management use	Jim Pojar 847-7430
142	Biodiversity Inventory	South Okanagan	3 of 5 yrs	BCE	Biophysical mapping and development of species algorithms to ecologically stratify the landscape	Ted Lea 387-9781, Bill Harper 387-1158, Bob Maxwell 387-9783, Trevor Goward 674-2553
143	Bird Habitat	Southwest British Columbia	2 of 2 yrs	CWS, FC	Effects of herbicides on bird habitat	Rhonda Millikin 946-8546
144	Bird Diversity	Prince Rupert Forest Region	1 of 3 yrs	MOF	Determine composition, relative abundance, habitats, and seral relationships of breeding bird communities in interior aspen forests	Brian Nyberg 387-3144, Rosalind Pojar 847-9784
145	Bird Diversity	Dawson Creek and Ft. St. John Forest Districts	1 of 5 yrs	MOF	Quantify bird species and relative abundance and determine the course and rate of community change during regrowth following aspen clearcutting in the BWBS biogeoclimatic zone	Brian Nyberg 387-3144, A. Lance 564-4115
146	British Columbia Conservation Data Center	Province-wide	2 of ongoing	BCE, NCC, NTBC, TNC	Compilation and maintenance of computerized and mapped information system for rare plants, animals, and plant communities of B.C.	Andrew Harcombe 387-9798, Syd Cannings, George Douglas, or Carmin Cadrin 356-0928/29
147	Estuaries	East Coast Vancouver Island	13 of ? yrs	CWS	Bird use and vegetation dynamics of estuaries	Neil Dawe 752-9611
148	Forest Bird Communities	Kamloops Forest Region	1 of 10 yrs	MOF	Effects of silviculture systems on bird communities in Engelmann spruce-subalpine fir forests	Tom Dickinson 828-5447, Nancy Flood 372-2425

No.	Topic Studied	Location	Status	Agency	Purpose	Contact
149	Habitat Capability	Ospika River	2 of 2 yrs	FCC, BCE	Test GIS as tool to aid in the assessment of habitats for multiple species	Line Giguere 246-9332
150	Lichens	Coastal British Columbia	2 of 2 yrs	BCE	Status reports for five rare and endangered lichens found in old growth forests	Ted Lea 387-9781, Trevor Goward 674-2553
151	Plants, Small Mammals, Birds, Furbearers	Kamloops	1 of 5 yrs	MOF, UBC, SFU	Measure impact of manual and herbicide-induced habitat alteration on species richness and diversity and determine how these practices may be modified to enhance diversity	Brian Nyberg 387-3144, Tom Sullivan 228-3543, Fred Bunnell 822-5724, Alton Harestad 291-4809
152	Saskatoon	Gaspard Creek Area, West of Williams Lake	4 of ongoing	BCE	Establishment trials of saskatoon on previously logged deer winter range	Andy Stewart 387-9780, Ron Kowall 387-1188
153	Waterfowl Habitat	Okanagan Valley	2 of 2 yrs	DU, BCE	Map frequency of occurrence of purple loosestrife, a potentially habitat threatening water-borne weed	Ed Heenan 374-8307, Al Peatt 493-8261, Kat Enns 479-6216
154	Wetlands	Comox Valley	1 of 3 yrs	CWS	Ecosystem distribution and abundance	Peggy Ward 946-8546
155	Wetlands	Fraser Lowland	3 of 3 yrs	CWS	GIS applications; ecosystem distribution and abundance	Kathleen Moore 946-8546
156	Wetlands	Lower Fraser Valley	3 of 3 yrs	CWS	Ecosystem distribution, abundance	Peggy Ward 946-8546
157	Wildlife Diversity	Coastal British Columbia	3 of ongoing	MOF, CWS	Determine habitat relationships of coastal vertebrates and develop recommendations to maintain diversity	Dale Seip 660-7530
158	Wildlife Diversity	East Central British Columbia	1 of 5 yrs	BCE	Examine changes or differences in wildlife diversity following various silvicultural treatments	Dave King or Chris Ritchie 565-6135
159	Wildlife Diversity	Nelson, Ft. St. John and Dawson Creek, Prince George	1 of 5 yrs	BCE	Changes in wildlife diversity during alternate (a) silviculture systems, (b) hardwood management, and (c) vegetation management	Laura Darling or Trudy Chatwin 387-9756, Tony Hamilton 387-9761
160	Wildlife Diversity	Vancouver Forest Region	2 of 3 yrs	MOF	Determine the abundance and diversity of birds, mammals, and amphibians in coastal alder stands compared to conifer stands	Dale Seip 660-7530
161	Wildlife Habitat	British Columbia Interior	1 of 4 yrs	MOF	Assess the impact of various site preparation treatment methods on wildlife habitat for red, blue, and selected yellow listed species	Brian Nyberg 387-3144, Kat Enns 479-6216
162	Wildlife Habitat	Cariboo Forest Region	4 of ? yrs	MOF	Impact of juvenile spacing on wildlife habitat	Harold Armleder 398-4407

No.	Topic Studied	Location	Status	Agency	Purpose	Contact
163	Wildlife Habitat	Cranbrook Area	1 of 5 yrs	BCE	Assess impacts of various harvesting systems in riparian areas on wildlife and their habitats	Rob Neil 426-1450, Nancy Newhouse 429-3479
164	Wildlife Habitat	Nelson Forest Region	2 of 2 yrs	MOF	Review the effects of vegetation management treatments on wildlife and their habitats	Peter Corbett or Brian Nyberg 387-3144
165	Wildlife Habitat	Nelson Forest Region	1 of 5 years	MOF	Use and character of wildlife trees	David Crampton 354-7601, Chris Steeger 357-2246
166	Wildlife Habitat	Penticton Area	1 of 5 yrs	BCE	Effects of harvesting to various crown closures in riparian areas on fish and wildlife	Dave Jones 493-8261, Manny Vaartnou 271-2505
167	Wildlife Habitat	Province-wide	2 of 2 yrs	MOF	Impact of hardwood management on wildlife	Kat Enns 479-6216, Brian Nyberg 387-3144
168	Wildlife Habitat	Province-wide	1 of 2 yrs	MOF, BCE	Identify data gaps regarding the impacts of vegetation management treatments on wildlife, wildlife habitat, and biodiversity	Tony Hamilton 387-9761, Sylvia von Shuckmann 387-0757
169	Wildlife Habitat	Province-wide	1 of 5 yrs	BCE, MOF, WCB, IND	Impacts of harvesting on wildlife trees and associated wildlife	Todd Manning 721-0201, Mike Fenger 387-9779
170	Wildlife Habitat	Quadra Island	1 of 5 yrs	BCE	Document wildlife species occurrence and abundance, and overstory and understory response to various harvesting techniques	Kim Brunt 758-3951, Jennifer Balke 335-2151
171	Wildlife Habitat	Smithers Area	1 of 5 yrs	BCE	Develop prescriptions for retention of snags, green trees, and coarse woody debris to meet wildlife habitat goals	Gord Wolfe 847-4303, Chris Steeger 357-2246, Ron Kowall 387-1188
172	Wildlife Habitat	Williams Lake Area	1 of 5 yrs	BCE	Assess the effects of shelterwood harvesting in Douglas-fir forests on wildlife diversity	Herb Langin 398-4563, Dagmar Keisker 747-3497
173	Wildlife Habitat Handbook	Southern Interior Ecoprovince	8 of 8 yrs	BCE, MOF, WHC	Assessing forestry impacts on vertebrate habitats using HSI models	Andrew Harcombe 387-9798